



GAIL (India) Ltd.
(A Govt. of India Undertaking)
Petrochemicals Marketing

B53A003U

High Density Polyethylene for Blow Moulding

Product Description and Typical Applications:

B53A003U is Ethylene Hexene Co-polymer blow moulding grade. It is suitable for production of blow molded containers up to 5 liters for items like toiletries and cosmetics (e.g. shampoos, creams, lotions etc.); lubricants (e.g. lube oil, grease etc.), health and medicinal aids and food products. It offers an optimum combination of toughness and processability.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	0.38	g/10min	ASTM D1238
Density @ 23 °C	0.953	g/cc	ASTM D1505
Tensile Strength @Yield	270	kg/cm ²	ASTM D638
Elongation @ Yield	8	%	ASTM D638
Flexural Modulus	10000	kg/cm ²	ASTM D790
Izod Impact Strength	92	j/m	ASTM D256
Shore D Hardness	62	-	ASTM D2240
Vicat Softening Temperature	125	°C	ASTM D1525
ESCR, (100% Igepal), F50	80	hrs.	ASTM D1693B

* Typical characteristics of the product given purely as a guide. Mechanical properties were determined on compression moulded specimens.

Processing Guidelines:

Barrel temperature: 155 - 190°C

Mould temperature: 25-40°C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

B53A003U is available in natural colour/pellet form in 25 kg strong bags made of woven fabric. The product should be stored in dry conditions at temperature below 50°C and protected from UV light.

For any technical assistance contact:

GAIL Polymer Technology Centre, GAIL (India) Limited

PARC Building, Plot No. 24, Sector-16A, Noida, (U.P.) India – 201301

Ph.: 0120-2515353/354/355/363 Fax No.: 0120-2511134, Website: www.gailonline.com

The information, data and suggestions contained herein are to the best of our knowledge accurate and reliable. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user specific application.